Assignment Day 6 | 7th December 2020

***For any doubts regarding* the assignment, ask questions in the Linux Administration 101 B1 Group in the Community.**
Submit Assignments by 12th December 2020 11:59 PM.

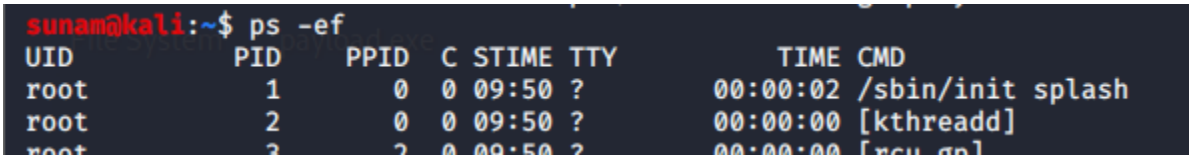
Assignment Submit Form :https://forms.gle/9MNzWbdDXhhdstWEA

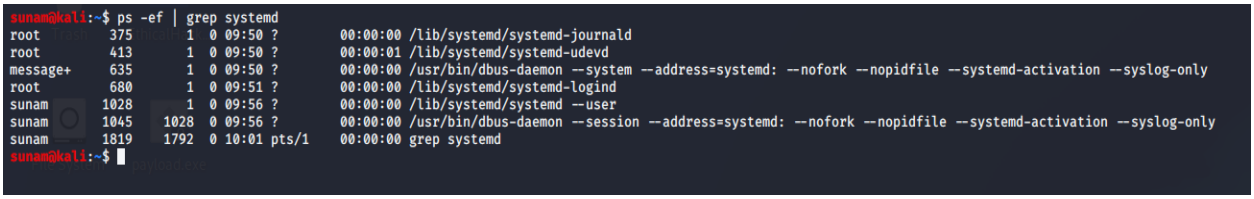
Submit assignments in Appropriate Dropdowns.

Question 1

1. Use ps to search for the "systemd" process by name.
2. Find out your terminal name.Using your terminal name, use ps to find all processes associated With your terminal.
3. Check and note the process id of your shell(from the output of the above command). Also, note the parent process id of your shell.
4. Start 3 instances of "sleep 123" as background processes.
5. Check and note the process id's of all sleep processes.
6. Display only those three sleep processes in top. Then quit top.

1. Using ps command to find systemd process





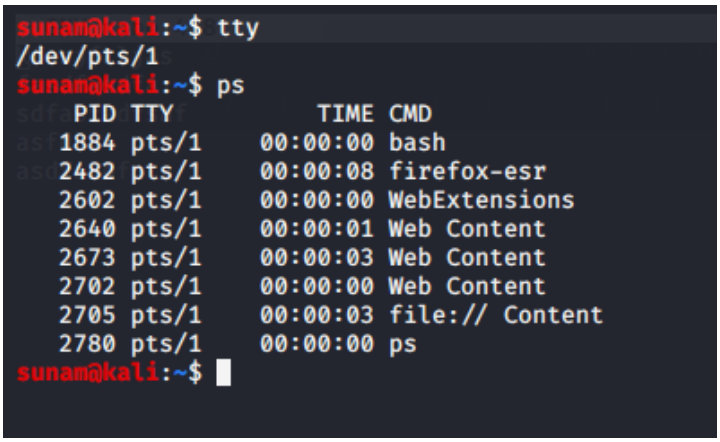
i. Execute ps -ef | grep systemd command to see the details of systemd process.

Systemd is a first program which starts during booting and last program to terminal during shutting down the system.

ii. We execute the ps -ef command which shows all the process, we notice that init process took the 1 process ID cause it is the parent process of all process which is executed by the kernel during booting.

iii. And in second figure, we noticed that all systemd process is the parent process of process having PID 1 i.e. init process

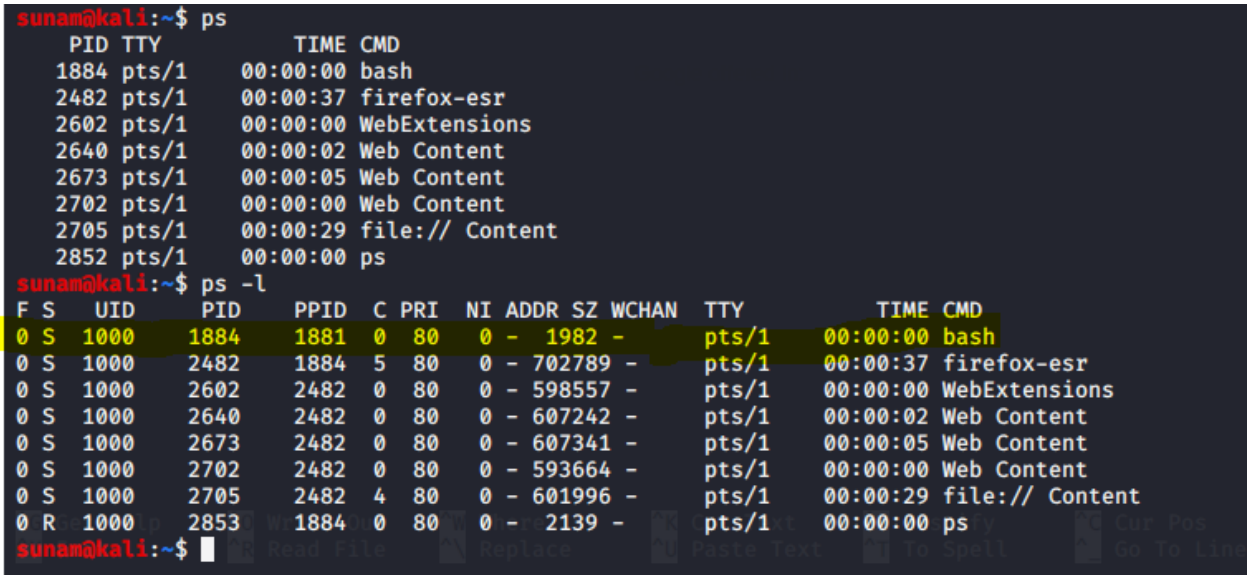
2. Display terminal name and process running on that terminal



i. Execute tty command on the terminal to know the terminal name

ii. Execute ps command to check the processes running through that terminal

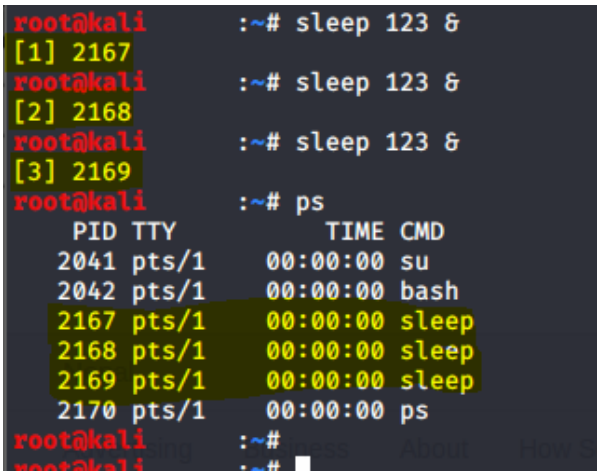
3. Check the process id of your shell and parent id of that shell



i. Executing ps command to check the process and we can notice that process ID 1884 has bash process

ii. Execute ps -l command to see the processes. Refer highlighted part of the figure to see the process id and parent process id of the shell.

4. Start 3 processes on background named “sleep123” and checking the process id



i. Running 3 instances of sleep123 process on background.

ii. Execute ps command to check the process ID of those process.

5. Display only those 3 process on top

```
root@kali       :~#
root@kali       :~# top -p 2167,2168,2169
```

```
File   Actions   Edit   View   Help

top - 00:32:39 up 14 min,  1 user,  load average: 0.12, 0.17, 0.11
Tasks:   3 total,   0 running,   3 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.3 us,  0.3 sy,  0.0 ni, 99.4 id,  0.1 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   5985.3 total,   4397.3 free,    904.2 used,    683.8 buff/cache
MiB Swap:   4094.0 total,   4094.0 free,      0.0 used.   4721.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   2167 root      20   0    5256    760    696 S   0.0   0.0   0:00.00 sleep
   2168 root      20   0    5256    692    628 S   0.0   0.0   0:00.00 sleep
   2169 root      20   0    5256    820    756 S   0.0   0.0   0:00.00 sleep
```

i. Execute “top -p [PID1,PID2,PID3]” to see the sleep123 process on top.

Thank You!